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This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (currently amended) An electric motor comprising:
- a stator for producing a magnetic field;
- a rotor rotated by said magnetic field;
- a motor shaft coupled to said rotor; [and]
- a first set of passageways through said rotor to conduct a nongaseous liquid coolant
- a passage in said motor shaft to conduct said nongaseous liquid coolant; and
- wherein said nongaseous liquid coolant is conducted through said rotor and said

motorshaft by centrifugal force generated by the rotation of said electric motor.

- 2. (original) The electric motor of Claim 1 wherein said stator includes current carrying coils to generate said magnetic field.
 - 3. (original) The electric motor of Claim 1 wherein said rotor is a squirrel cage rotor.
- 4. (original) The electric motor of Claim 1 wherein said rotor includes permanent magnets.
- 5. (previously presented) The electric motor of Claim 1 wherein said motor shaft includes an interior surface that is cone shaped to conduct said nongaseous liquid coolant through said interior surface to cool the electric motor.
- 6. (previously presented) The electric motor of Claim 1 wherein said first set of passageways has entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.

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- 7. (original) The electric motor of Claim 1 further including a second set of passageways between said rotor and said motor shaft.
- 8. (original) The electric motor of Claim 7 wherein said second set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
 - 9. (currently amended) An electric motor comprising: a wound stator, said wound stator conducting current to generate a magnetic field; a rotor rotated by said magnetic field;

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- a motor shaft coupled to said rotor, said motor shaft including a cone shaped interior surface having an entrance opening and an exit opening; and
- a nongaseous liquid coolant propelled by centrifugal force generated by the rotation of said rotor through said cone shaped interior surface, said nongaseous liquid coolant cooling the electric motor; and
- a first set of passageways through said rotor to conduct said nongaseous liquid coolant through said rotor said nongaseous liquid coolant propelled by centrifugal force through said first set of passageways.
 - 10. (original) The electric motor of claim 9 wherein said rotor is a squirrel cage rotor.
- 11. (original) The electric motor of Claim 9, wherein said rotor includes permanent magnets.
 - 12. (original) The electric motor of Claim 9 wherein said liquid coolant is oil.
 - 13, cancelled.

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- 14. (previously presented) The electric motor of Claim 9 wherein said first set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
- 15. (original) The electric motor of Claim 9 further including a second set of passageways between said rotor and said motor shaft.
- 16. (original) The electric motor of Claim 15 wherein said second set of passageways have entrance openings and exit openings, said entrance openings oriented about said motor shaft center line at a first diameter, said exit openings oriented about said motor shaft center line at a second diameter, and said first diameter being less than said second diameter.
- 17. (currently amended) A method of cooling an electric motor comprising: providing an electric motor having a stator, a rotor magnetically coupled to said stator <u>having passageways</u>, and a hollow motor shaft coupled to said rotor;

rotating said rotor and said motor shaft; and
generating a centrifugal force to force a <u>nongaseous</u> liquid coolant through
passageways in said rotor <u>and said hollow motor shaft</u>.

18. (previously presented) The method of Claim 18 wherein said liquid coolant is oil.